

l SEQUENCE LISTING

```
<110> Gazith, Ehud
<120> PEPTIDES ANTIBODIES DIRECTED THEREAGAINST AND METHODS USING SAME
       FOR DIAGNOSING AND TREATING AMYLOID-ASSOCIATED DISEASES
<130> 31230
<160> 150
<170> PatentIn version 3.2
<210>
<211>
      PRT
<212>
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 1
Asn Phe Gly Ala Ile Leu Ser Ser 1 \hspace{1cm} 5
<210> 2
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 2
Ala Phe Gly Ala Ile Leu Ser Ser \mathbf{1}
<210>
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 3
Asn Ala Gly Ala Ile Leu Ser Ser 1 5
<210>
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 4
Asn Phe Ala Ala Ile Leu Ser Ser 1
<210> 5
<211>
       8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 5
Asn Phe Gly Ala Ala Leu Ser Ser
```

```
<210> 6
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 6
Asn Phe Gly Ala Ile Ala Ser Ser 1
<210>
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Consensus sequence
<220>
<221> misc_feature
<222> (1)..(1)
<223> Any aromatic amino_acid
<220>
<221> misc_feature
<222> (2)...(2)
<223> Any amino acid, but glycine
<220>
<221> misc_feature
<222> (3)..(5)
<223> Any amino acid
<400> 7
Xaa Xaa Xaa Xaa Xaa
1 5
<210> 8
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 8
Ala Phe Gly Ala Ile Leu
1 5
<210> 9
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 9
Asn Ala Gly Ala Ile Leu
1 5
<210> 10
```

.)

```
<220>
<223> Synthetic peptide
<400> 10
Asn Phe Gly Ala Ala Leu
1 5
<210> 11
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 11
Asn Phe Gly Ala Ile Ala 1
<210> 12
<211> 6
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 12
Asn Phe Ala Ala Ile Leu
1 5
<210> 13
<211> 5
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 13
Phe Ala Ala Ile Leu
<210> 14
<211> 9
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 14
Asn Phe Leu Val His Ser Ser Asn Asn 1 5
<210> 15
<211> 7
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 15
Asn Phe Leu Val His Ser Ser 1 5
```

```
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 16
Phe Leu Val His Ser Ser
<210> 17
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 17
Asn Phe Leu Val His
<210> 18
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 18
Phe Leu Val His Ser
<210> 19
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 19
Phe Leu Val His
<210> 20
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 20
Asn Phe Gly Ser Val Gln Val Phe 1 5
<210> 21
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 21
Asn Phe Gly Ser Val Gln
```

```
1
<210> 22
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 22
Asn Phe Gly Ser Val
<210> 23
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 23
Phe Gly Ser Val Gln 1 5
<210> 24
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 24
Gly Ser Val Gln
<210> 25
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 25
Phe Gly Ser Val
<210> 26
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 26
Asn Ala Gly Ser Val Gln 1 5
<210> 27
<211> 5
<212> PRT
<213> Artificial sequence
<220>
```

<223> Synthetic peptide

```
<400> 27
Asp Phe Asn Lys Phe
<210> 28
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 28
Phe Asn Lys Phe
<210> 29
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 29
Asp Phe Asn Lys
<210> 30
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 30
Asp Phe Asn
<210> 31
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 31
Asp Ala Asn Lys Phe
<210> 32
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 32
Leu Phe Asn Gln Thr Gly
<210> 33
<211>
<212>
        6
PRT
```

```
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 33
Ser Phe Phe Ser Phe Leu 5
<210> 34
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 34
Phe Glu Asn Lys Phe 1 5
<210> 35
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 35
Ser Phe Asn Asn Gly 1 5
<210> 36
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 36
Leu Gln Asn Phe Thr Leu 1 5
<210>
<211> 6
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 37
Thr Leu Ile Phe Gly Gly 1
<210>
        38
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 38
Arg Ala Leu Asp Phe Ala 1 5
```

```
<210> 39
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 39
Gly Leu Val Phe Val Ser
<210> 40
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 40
Gly Thr Phe Gln Ile Asn 1 5
<210> 41
<211> 6
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 41
Ser Gly Ile Phe Thr Asn 1 5
<210>
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 42
Glu Arg Gly Phe Phe 1 5
<210>
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 43
Arg Asp Phe Leu Asp Arg
<210>
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 44
```

```
Ser Asn Phe Leu Asn 1 5
<210> 45
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 45
Asn Phe Leu Val His Pro Pro 1
<210> 46
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 46
Asn Phe Gly Ala Ile Leu Ser Ser 1
<210> 47
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 47
Asn Ile Gly Ala Ile Leu Ser Ser 1 5
<210> 48
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 48
Asn Leu Gly Ala Ile Leu Ser Ser 1
<210> 49
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 49
Asn Val Gly Ala Ile Leu Ser Ser 1
<210>
       50
<211> 24
<212> DNA
<213> Artificial sequence
```

<220> <223>	Single strand DNA oligonucleotide	
<400> aaatgc	50 aaca ccgcgacctg cgcg	24
<210> <211> <212> <213>	51 30 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> acccag	51 cgcc tggcgaactt tctggtgcat	30
<210> <211> <212> <213>	52 30 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> agcagc	52 aaca actttggcgc gattctgagc	30
<210><211><211><212><213>	53 33 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> agcacc	53 aacg tgggcagcaa cacctattaa tga	33
<210><211><211><212><213>	54 18 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> tcgttg	54 tgca taattact	18
<210> <211> <212> <213>	55 30 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> ccgcgc	55 taag actcgtcgtg cttgcacccg	30
<210><211><211><212><213>	56 33 DNA Artificial sequence	
<220> <223>	Single strand DNA oligonucleotide	
<400> cgcttg	56 aaag accacgtatc gtcgttgttg aaa	33
<210>	57	

```
<211>
<212>
      DNA
      Artificial sequence
<220>
<223> Single strand DNA oligonucleotide
<400> 57
                                                                       36
tttacgttgt ggcgctggac gcgctgggtc gcggac
<210> 58
      114
<211>
<212> DNA
<213> Artificial sequence
<220>
<223> Modified IAPP cDNA for expression in bacteria
<400> 58
atgaaatgca acaccgcgac ctgcgcgacc cagcgcctgg cgaactttct ggtgcatagc
                                                                       60
                                                                      114
agcaacaact ttggcgcgat tctgagcagc accaacgtgg gcagcaacac ctat
<210>
      59
<211> 56
<212> DNA
<213> Artificial sequence
<220>
<223> Single strand DNA oligonucleotide
                                                                       56
gggtttccat gggccatcac catcaccatc acgaaaaatg caacaccgcg acctgc
<210> 60
<211>
<213>
      Artificial sequence
<220>
<223> Single strand DNA oligonucleotide
<400> 60
gggtttgcgg ccgctcatta ataggtgttg ctgcc
                                                                       35
<210> 61
<211> 10
<212> PR
      PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 61
Lys Cys Asn Thr Ala Thr Cys Ala Thr Gln
<210>
       62
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 62
Cys Asn Thr Ala Thr Cys Ala Thr Gln Arg
<210>
<211>
<212>
       10
```

PRT

```
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 63
Asn Thr Ala Thr Cys Ala Thr Gln Arg Leu 1 5 10
<210>
      64
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 64
Thr Ala Thr Cys Ala Thr Gln Arg Leu Ala
<210> 65
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 65
Ala Thr Cys Ala Thr Gln Arg Leu Ala Asn
<210> 66
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 66
<210> 67
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 67
Cys Ala Thr Gln Arg Leu Ala Asn Phe Leu
<210> 68
<211> 00
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 68
Ala Thr Gln Arg Leu Ala Asn Phe Leu Val 1 5 10
```

```
<210>
        69
<211>
        10
<212> PRT
<213>
       Artificial sequence
<220>
<223> Synthetic peptide
<400> 69
Thr Gln Arg Leu Ala Asn Phe Leu Val His 1 	 5
<210>
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 70
Gln Arg Leu Ala Asn Phe Leu Val His Ser
<210>
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 71
Arg Leu Ala Asn Phe Leu Val His Ser Ser
<210> 72
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 72
Leu Ala Asn Phe Leu Val His Ser Ser Asn 1 \phantom{\bigg|}5\phantom{\bigg|}
<210>
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 73
Ala Asn Phe Leu Val His Ser Ser Asn Asn 1 5 10
<210>
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 74
```

```
Asn Phe Leu Val His Ser Ser Asn Asn Phe
<210> 75
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 75
<210> 76
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 76
Leu Val His Ser Ser Asn Asn Phe Gly Ala
<210> 77
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 77
Val His Ser Ser Asn Asn Phe Gly Ala Ile
<210> 78
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 78
His Ser Ser Asn Asn Phe Gly Ala Ile Leu
<210> 79
<211> 10
<213> Artificial sequence
<220>
<223> Synthetic peptide
Ser Ser Asn Asn Phe Gly Ala Ile Leu Ser
<210>
      80
<211> 10
<212> PRT
```

<213> Artificial sequence

```
<220>
<223> Synthetic peptide
<400> 80
Ser Asn Asn Phe Gly Ala Ile Leu Ser Ser 1 5 10
<210> 81
<211> 10
<212> PR7
      PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 81
Asn Asn Phe Gly Ala Ile Leu Ser Ser Thr 1 \phantom{\bigg|}5\phantom{\bigg|}
<210> 82
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 82
<210> 83
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 83
Phe Gly Ala Ile Leu Ser Ser Thr Asn Val 1 5
<210> 84
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 84
Gly Ala Ile Leu Ser Ser Thr Asn Val Gly 1 \phantom{\bigg|}
<210> 85
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 85
Ala Ile Leu Ser Ser Thr Asn Val Gly Ser 1 5 10
```

```
<211> 10
<212> PRT
<213>
       Artificial sequence
<220>
<223> Synthetic peptide
<400> 86
Ile Leu Ser Ser Thr Asn Val Gly Ser Asn 1 5 10
<210> 87
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 87
Leu Ser Ser Thr Asn Val Gly Ser Asn Thr 1 \hspace{1cm} 5 \hspace{1cm} 10
<210> 88
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 88
Ser Ser Thr Asn Val Gly Ser Asn Thr Tyr 1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 10
<210> 89
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 89
Asn Ala Gly Ala Ile Leu Ser Ser 1
<210>
<211> 10
<212> PRT
<213> Artificial sequence
<220>
<223> Peptide array consensus sequence
<220>
<221> misc_feature
<222> (4)..(4)
<223> Any amino acid, but cysteine
<400> 90
<210> 91
<211>
<212> PRT
<213> Artificial sequence
```

```
<220>
<223> Synthetic peptide
<400> 91
Asn Ala Gly Ala Ile Leu Ser Ser 1 5
<210> 92
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 92
Asn Ala Gly Ala Ile Leu Ser Ser
<210> 93
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 93
Asn Asp Gly Ala Ile Leu Ser Ser 1
<210> 94
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 94
Asn Glu Gly Ala Ile Leu Ser Ser 1
<210> 95
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 95
Asn Phe Gly Ala Ile Leu Ser Ser 1
<210> 96
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 96
Asn Gly Gly Ala Ile Leu Ser Ser 1
```

```
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 97
Asn His Gly Ala Ile Leu Ser Ser 1 	 5
<210> 98
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 98
Asn Ile Gly Ala Ile Leu Ser Ser 1
<210> 99
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 99
Asn Lys Gly Ala Ile Leu Ser Ser 1 5
<210> 100
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 100
Asn Leu Gly Ala Ile Leu Ser Ser 1 	 5
<210> 101
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 101
Asn Met Gly Ala Ile Leu Ser Ser 1
<210> 102
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 102
Asn Asn Gly Ala Ile Leu Ser Ser
```

```
<210> 103
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 103
Asn Pro Gly Ala Ile Leu Ser Ser 1 5
<210> 104
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 104
Asn Gln Gly Ala Ile Leu Ser Ser 1
<210> 105
<211> 8
<212> PRT
<213> Artificial sequence
 <220>
<223> Synthetic peptide
<400> 105
Asn Arg Gly Ala Ile Leu Ser Ser 1 	 5
<210> 106
<211> 8
<212> PRT
<213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 106
 Asn Ser Gly Ala Ile Leu Ser Ser 1 5
 <210> 107
<211> 8
<212> PRT
<213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 107
 Asn Thr Gly Ala Ile Leu Ser Ser 1
```

<210> 108 <211> 8 <212> PRT <213> Artificial sequence <220> <223> Synthetic peptide

```
<400> 108
Asn Val Gly Ala Ile Leu Ser Ser
1 5
<210> 109
<211> 8
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 109
Asn Trp Gly Ala Ile Leu Ser Ser 1
<210> 110
<211> 8
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 110
Asn Tyr Gly Ala Ile Leu Ser Ser
<210> 111
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 111
Asn Phe Gly Ala Ile Leu 1 5
<210> 112
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(3)
<223> D-Stereoisomer
<400> 112
Phe Phe Pro
<210> 113
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthtic peptide
<220>
<221> misc_feature
```

• •

```
<222> (1)..(1) <223> D and L methyl alanine
<220>
<221> misc_feature
<222> (2)..(3)
<223> D-Stereoisomer
<220>
<221> misc_feature
<222> (4)..(4)
<223> D and L methyl alanine
<400> 113
Xaa Phe Asn Xaa
<210> 114
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D and L methyl alanine
<220>
<400> 114
Xaa Asn Phe Xaa
<210> 115
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 115
Tyr Tyr
<210> 116
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (2)..(2)
<223> amidated amino acid
<400> 116
Tyr Tyr
<210> 117
<211> 3
```

```
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D and L methyl alanine
<400> 117
Xaa Phe Phe
<210> 118
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc feature
<222> (3)..(3)
<223> D and L methyl alanine
<400> 118
Asn Tyr Xaa
<210> 119
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 119
Asn Tyr Pro
<210> 120
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
 <220>
<221> misc_feature
<222> (1)..(3)
<223> D-Stereoisomer
<400> 120
Asn Tyr Pro
<210> 121
<211> 2
<212> PRT
<213> Artificial sequence
 <220>
<223> Synthetic peptide
```

• •

```
<220>
<221> misc_feature
<222> (1)..(1)
<223> D-Stereoisomer
<220>

<221> misc_feature
<222> (2)..(2)
<223> D and L methyl alanine

<400> 121
Tyr Xaa
1
<210> 122
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<400> 122
Pro Tyr
<210> 123
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<400> 123
Tyr Pro
1
<210> 124
<211> 6
<212> PRT
<213> Artificial sequence
<223> Synthetic peptide
<400> 124
Ala Asn Phe Leu Val His
1 5
<210> 125
<211> 6
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
```

```
<220>
<221> misc_feature
<222> (1)..(1)
<223> D and L methyl alanine
<220>
<400> 125
Xaa Asn Phe Xaa Val His
<210> 126
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 126
Ala Asn Phe Leu Val
<210> 127
<211> 5
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D and L methyl alanine
<220>
<221> misc_feature
<222> (4)..(4)
<223> D and L methyl alanine
<400> 127
Xaa Asn Phe Xaa Val
<210> 128
<211> 3
<212> PRT
<213> Artificial sequence
 <220>
<223> Synthetic peptide
 <220>
<220>
<221> misc_feature
<222> (1)..(3)
 <223> D-Stereoisomer
<400> 128
Phe Phe Pro
 <210> 129
<211> 4
<212> PRT
<213> Artificial sequence
```

```
<220>
<223> Synthetic peptide
<220>
      misc_feature (1)..(1)
<221>
<222>
<223> Alpha-aminoisobutyric acid (Aib)
<220>
<221>
<222>
       misc_feature (2)..(3)
<223>
       D-Stereoisomer
<220>
<221> misc_feature
<222> (4)..(4)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 129
Xaa Phe Asn Xaa
<210> 130
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222>
        (1)...(3)
<223> D-Stereoisomer
<400> 130
Phe Asn Pro
<210> 131
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> Alpha-aminoisobutyric acid (Aib)
<220>
<221> misc_feature
<222> (4)..(4)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 131
Xaa Asn Phe Xaa
<210> 132
<211>
<212>
       PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
```

<220>

```
<221> misc_feature
<222> (1)..(1)
<223> Alpha-aminoisobutyric acid (Aib)
<221> misc_feature
<222> (4)..(4)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 132
Gln Lys Leu Val Phe Phe
<210> 133
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 133
Tyr Tyr
<210> 134
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 134
Asn Tyr Tyr Pro
<210> 135
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (3)..(3)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 135
Tyr Tyr Xaa
<210> 136
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<220>
<221> misc_feature
<222> (1)..(1)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 136
Xaa Tyr Tyr
```

```
1
<210> 137
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> Alpha-aminoisobutyric acid (Aib)
<220>
<221> misc_feature
<222> (4)..(4)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 137
Xaa Tyr Tyr Xaa
<210> 138
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D-Stereoisomer
<220>
<221> misc_feature
<222> (4)..(4)
<223> D-Stereoisomer
<400> 138
Asn Tyr Tyr Pro
<210> 139
<211> 3
<212> PRT
<213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 139
 Pro Tyr Tyr
<210> 140
<211> 3
<212> PRT
<213> Artificial sequence
 <220>
 <223> Synthetic peptide
 <400> 140
 Tyr Tyr Pro
1
```

6 1 3 3

.

```
<210> 141
<211> 4
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<400> 141
Pro Tyr Tyr Pro
<210> 142
<211>
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<400> 142
Tyr Tyr
<210> 143
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature  
<222> (2)..(2)  
<223> Alpha-aminoisobutyric acid (Aib)
<400> 143
Pro Xaa
<210> 144
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<400> 144
Phe Pro
<210> 145
<211> 2
<212> PRT
<213> Artificial sequence
```

```
<220>
<223>
        Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D-Stereoisomer
<220>
        misc_feature (2)..(2)
<221>
<222>
<223> Alpha-aminoisobutyric acid (Aib)
<400> 145
Trp Xaa
<210> 146
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<400> 146
Trp Pro
<210> 147
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(1)
<223> D-Stereoisomer
<400> 147
Phe Pro
<210> 148
<211> 2
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (2)..(2)
<223> D-Stereoisomer
<400> 148
Pro Phe
```

C 4 7 3

```
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (1)..(2)
<223> D-Stereoisomer
<220>
<221> misc_feature
<222> (3)..(3)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 149
Cys Trp Xaa
1
<210> 150
<211> 3
<212> PRT
<213> Artificial sequence
<220>
<223> Synthetic peptide
<220>
<221> misc_feature
<222> (2)..(2)
<223> D-Stereoisomer
<220>
<221> misc_feature <222> (3)..(3)
<223> Alpha-aminoisobutyric acid (Aib)
<400> 150
Cys Trp Xaa
1
```